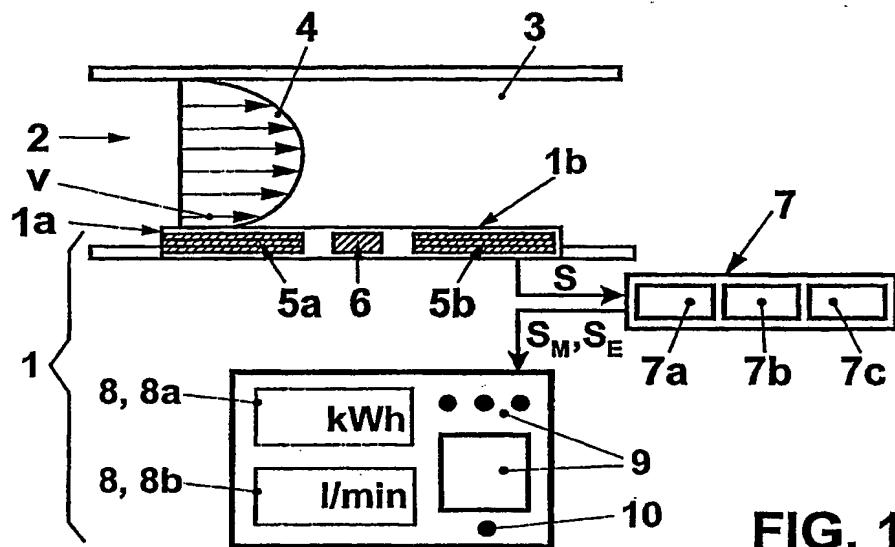
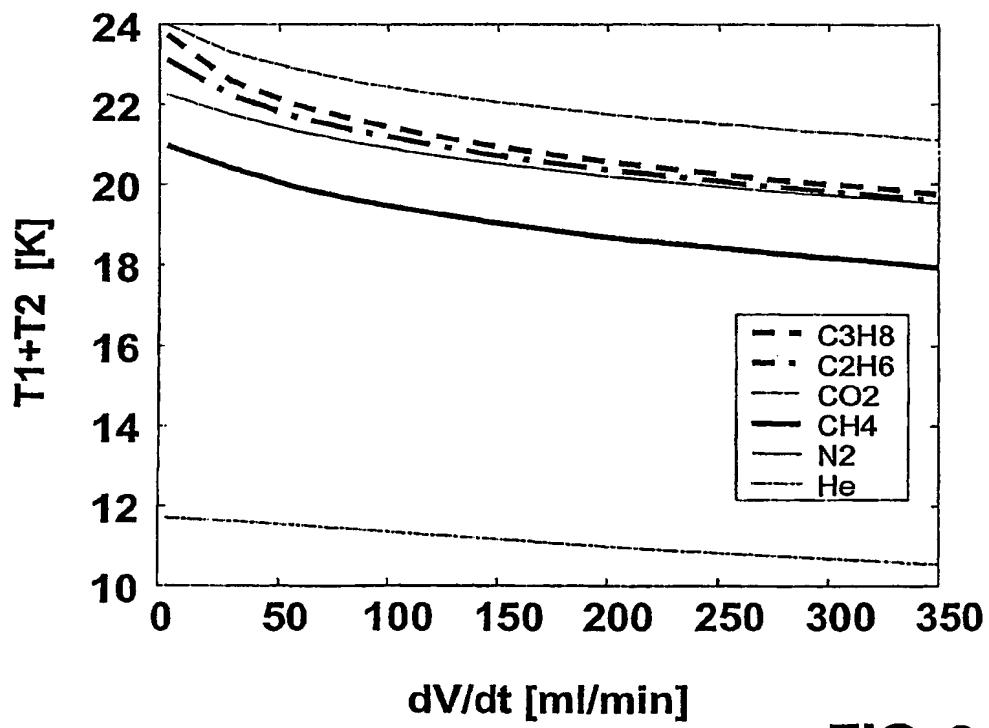


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**FIG. 1**



**FIG. 2**

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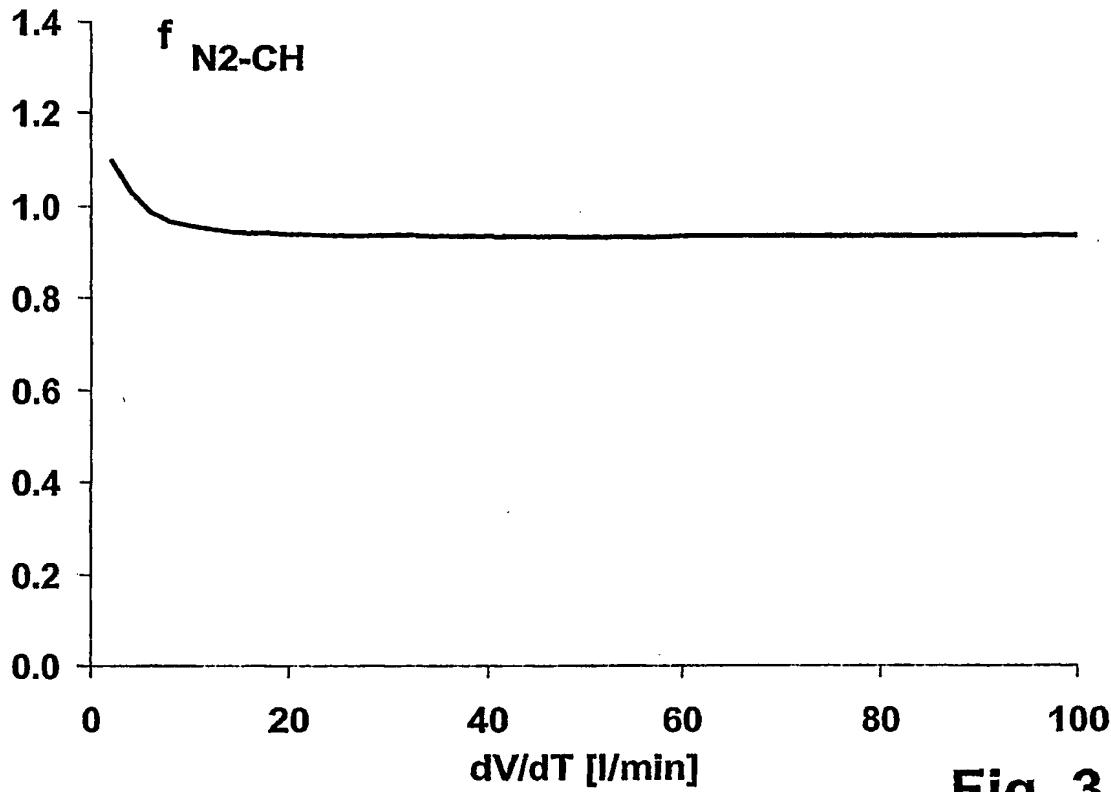


Fig. 3

Gas	Temperature: 300K; Pressure: 1.013 bar			
	$\lambda$ W/(mK)	$c_p$ J/(kgK)	$\rho$ kg/m <sup>3</sup>	$\alpha$ m <sup>2</sup> /s
Methane	0.0341	2200.34	0.653	2.37E-05
Ethane	0.0213	1749.25	1.231	9.90E-06
Propane	0.0180	1626.57	1.967	5.63E-06
Carbon dioxide	0.0168	842.99	1.797	1.11E-05
Nitrogen	0.0260	1038.77	1.138	2.20E-05
Oxygen	0.0263	918.78	1.301	2.20E-05
Hydrogen	0.1869	14285.71	0.082	1.60E-04
Water	0.0187	1865.11	0.767	1.31E-05
Carbon monoxide	0.0250	1038.91	1.138	2.11E-05
Helium	0.1567	5196.10	0.163	1.86E-04

Fig. 4

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